United States Joint Forces Command

Joint Mission Thread Development for Reusability

J89 Joint Architectures & Capability Engineering

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Joint Mission Thread Definitions

- A **joint mission thread (JMT)** is an operational and technical description of the end to end set of activities and systems that accomplish the execution of a joint mission. (CJCSI 6212.01E) – ***Recommended***
- By CJCSI 6212.01E definition, JMT Synonyms = Scenario, Vignette, Use Case, and Test Thread
- However, in practice, multiple scenarios, vignettes, and use cases are required to document the breadth of a Joint Mission Thread for reusability
- **A complete, end-to-end JMT architecture is comprised of multiple scenarios, vignettes, and use cases**

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Assumptions, Scope & Purpose

- **Assumptions:**
  - Joint Mission Threads (JMTs) are required to provide operational context for:
    - Joint DOTMLPF/capability analysis
    - Joint Testing and Evaluation (JT&E)
    - Joint Training Exercises
    - Joint Experiments
    - Joint Modeling & Simulation (M&S)
    - Other Joint Capability Assessments
  - No formal, repeatable process is codified for JMT development that promotes:
    - Maximum reusability by establishing a minimum JMT information set
    - JMT “deep dive” extensions down to the tactical level
- **Scope:** Establish a list of critical JMTs that are needed by joint stakeholders to guide their analysis & assessment efforts.
- **Purpose:** Collaboratively develop a list of desired JMTs

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Recommendation: Joint Mission Thread Development Should Be UJTL-Based

- UJTs provide Operational Mission Area Context for Joint Mission Thread development
- UJTs are recognized and credible joint “touch points” for warfighter training, organizing, and equipping
- Services and COCOMs map their task lists to UJTs (Service Task Lists and JMETLs). The UJTs reference those Service Task Lists where those linkages have been validated
- UJTL is an authoritative source
- UJTs provide detailed, amplifying information (Task Description, Measures, Additional Task Description, Joint Conditions, and Doctrine References) that will inform and guide JMT development
- UJTs are also mapped to overarching Joint Capability Areas (JCAs), the overarching binning mechanism for the DoD

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JTL-Based Joint Mission Thread Guidelin

- Joint Mission Threads (JMTs) should be primarily based on *Operational (OP) and Tactical (TA) level* Universal Joint Tasks (UJTs).
- JMTs contain operational nodes/roles that can be filled by *more than one* Service, Agency, or coalition partner to ensure “joint context”.
- JMTs should be based on UJTs that are *activity based* (indicate sequence or sequences of activity) and have *supporting joint doctrine*.
- JMTs should be threads that are focused on *mission performance* vice *enabling* mission completion (see following slide).
- JMT minimum information sets should be able to be developed within 90 days, using 4 FTE developers and 2.5 FTE operational analysts/SMEs
- JMTs may be based on more than one UJT to provide proper context; e.g., the Net-Enabled UJT under development, SN7.X, Ensure Information Services Interoperability, will be bundled with other UJTs to ensure information interoperability for mission accomplishment.

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Mission Performance vs. Mission Enabler

- *Mission performance*
  - Thread has a direct impact on mission outcome. Characterized as being mission-specific, requires mission analysis and planning, results in a fixed and finite outcome, and multi-nodal with diverse participants in a temporary or ad-hoc configuration
- *Mission enablers*
  - Activities that indirectly support multiple JMTs. Enablers are characterized as being routinely performed by established organizations, repetitive in nature, and support oriented.
  - Examples of mission enabler UJTs
    - Most C2 UJTs – 5.xxx [e.g., OP 5.5 Establish, Organize, and Operate a Joint Force Headquarters & TA 5 Exercise Command and Control]
    - Most Sustainment UJTs – 4.xxx [e.g., OP 4.5.2 Supply Operational Forces & TA 4.2.3 Conduct Air Refueling]
    - All Force Deployment/Readiness/Counter–CBRNE – 7.xxx [e.g., OP 7.8 Integrate Passive Defense Operations in Joint Operations Area (JOA) & TA 7 Operate in a CBRNE Environment]
    - All Multinational/Interagency – 8.xxx

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Range Of Military Operations
Types of Military Operations

Crisis Response
Strikes
Raids
Limited Contingency Operations
Military Engagement
Security Cooperation
Show of Force
Deterrence
Protection of Shipping
Major Operations
Campaigns
Combating Terrorism

MISSION AREAS

Many to Many

Provide Global Strike Capabilities
Space
Tailor Joint Forces for Deployment
Joint Interdiction
Antisubmarine Warfare
Humanitarian Assistance
Determine and Report Force Readiness
Air Assault
Manage Personnel Recovery
Destroy Enemy Bases
Manage National Strategic Firepower
Coordinate Joint/Multinational Training Events
Synchronize Strategic Attack
Information Warfare
Develop Prototypes of Improved or New Capabilities for the Warfighter
Theater Missile Defense

(Operational Templates, Strategic National, Strategic Theater)

Many to Many

MISSION THREADS

JCAS
Interdiction
CIED
Non-Lethal Attack
JPR
Joint Fires
JSEAD
Countermine
TST
Defensive Countermeasures
EW/EA
Mine Operations
Non combatant evac
CWMD
Interdiction
Military deception
Amphibious Assault
MEDEVAC
PSYOP
CND/CAN/CNE
Tactical Airlift
Counter Drug
Maritime interception

(Operational, Tactical)

Intel Support
Coalition Support
Prepare Plans
Supply
Analyze COAs
Mission Planning
OPSEC
Air Refueling
CID

(Operational, Tactical)

ENABLING Universal Joint Tasks

Joint Mission Threads

sion Thread	TACTICAL Universal Joint Task		Operational Universal Joint Task			Joint Pub (Doctrine)
Counter IED	TA6.9	Conduct Counter Improvised Explosive Device (IED) Operations	OP6.2.2.1	Conduct Counter Improvised Explosive Device (IED) Operations	JP 3-15	Barriers, Obstacles, and Mine Warfare for Joint Operations
Joint Personnel Recovery (JPR)	TA6.2	Execute Personnel Recovery Operations	OP6.2.9	Coordinate Personnel Recovery	JP 3-50	Personnel Recovery
Joint Suppression of Enemy Air Defenses (JSEAD)	TA3.2.4	Conduct Joint Suppression of Enemy Air Defenses (JSEAD)	OP3.2.4	Suppress Enemy Air Defenses	JP 3-01.4	JTTP for Joint SEAD
Interdiction	TA3.2.3	Conduct Interdiction Operations	OP3.2.5	Interdict Operational Forces/Targets	JP 3-03	Joint Interdiction
Joint Close Air Support (JCAS)	TA3.2.2	Conduct Close Air Support	OP3.2.1	Provide Close Air Support Integration for Surface Forces	JP 3-09.3	JTTP for JCAS
Defensive Countermeasures: EW, Military Deception, OPSEC, COMSEC, Barriers/Obstacles	TA6.8, TA5.6.1	Conduct Defensive Countermeasures Operations	OP6.6, OP6.6.1, OP6.6.2	Conduct Defensive Countermeasure Operations	JP 3-13, JP 3-13.1, JP 3-13.3, JP 3-13.4	Various
EW/EA	TA5.6.4	Employ Electronic Warfare (EW) in the Joint Operations Area (JOA)	OP5.6.4	Conduct Electronic Warfare (EW) in the Joint Operations Area (JOA)	JP 3-13.1	Electronic Warfare
Military Deception	TA5.6.3	Execute Military Deception (MILDEC) in the Joint Operations Area (JOA)	OP5.6.3	Conduct Military Deception (MILDEC) in the Joint Operations Area (JOA)	JP 3-13.4	Military Deception
Mine operations	TA1.4	Conduct Mine Operations			JP 3-15	Barriers, Obstacle, and Mine Warfare for Joint Operations
CND/CAN/CNE	TA5.6.5.3	Employ Computer Network Defense (CND)	OP5.6.5.3	Conduct Computer Network Defense (CND)	JP 3-13, JP 3-13.1, JP 3-13.3, JP 3-13.4	Various
Time Sensitive Targeting	TA3.2.1.1	Engage Time Sensitive Targets	OP3.1.9	Conduct Dynamic Targeting	JP 3-09, JP 3-60	Joint Targeting
Joint Fires	TA3.2.1	Conduct Joint Fires	OP3	Employ Operational Firepower	JP 3-09	Joint Fires Support
Counter Mine	TA1.3	Conduct Countermine Operations	OP6.2.13	Conduct Countermine Activities	JP 3-15	Barriers, Obstacles, and Mine Warfare for Joint Operations
Counterdrug	TA1.2.4	Conduct Counterdrug Operations			JP 3-07.4	Joint Counterdrug Operations

Joint Mission Threads

sion Thread	TACTICAL Universal Joint Task		Operational Universal Joint Task			Joint Pub (Doctrine)
Amphibious Assault	TA1.2.3	Conduct Amphibious Assault Operations	OP1.2.4.3	Conduct Forcible Entry: Airborne, Amphibious, and Air Assault	JP 3-02, JP 3-02.2, JP 3-18	Joint Doctrine for Amphibious Operations
Tactical Airlift	TA1.1.1	Conduct Tactical Airlift			JP 3-17	Joint Doctrine and Joint Tactics, Techniques, and Procedures for Air Mobility Operations
Medical Evacuation (MEDEVAC)			OP1.6	Conduct Patient Evactuation	JP 3-17	Joint Doctrine and Joint Tactics, Techniques, and Procedures for Air Mobility Operations
CWMD			OP7.6	Conduct Combating Weapons of Mass Destruction (CWMD) Elimination Operations in Joint Operations Area (JOA)	JP 6-0	Joint Handbook WMD Elimination Operations)
PSYOP	TA5.6.6	Employ Psychological Operations (PSYOP)	OP5.6.6.1	Conduct Psychological Operations (PSYOP)	JP 3-53	Joint Doctrine for Psychological Operations
Maritime Interception			OP1.4.4	Conduct Maritime Interception	JP 3-07.3	Peace Operations
Non-Lethal Attack			OP3.2.2	Conduct Non-Lethal Attack	JP 3-07.3	Peace Operations
Noncombatant Evacuation	TA6.4	Conduct Noncombatant Evacuation	OP6.2.6	Conduct Evacuation of Noncombatants from the Joint Operations Area	JP 3-68	Noncombatant Evacuation Operations
AAW			ST 1.6.2	Gain and Maintain Air Superiority in Theater	JP 3-01	Countering Air and Missile Threats
Air and Missile Defense	TA3.2.7	Conduct Air and Missile Defense Operations	OP6.1.4	Counter Enemy Air Attack (Defensive Counter Air (DCA)) in the Joint Operations Area	JP 3-01	Countering Air and Missile Threats
			OP6.1.5	Conduct Joint Operations Area Missile Defense		

ENABLING UJTs

EXAMPLES – Not Intended to be all inclusive

UJT	TACTICAL Universal Joint Task		Operational Universal Joint Task			Joint Pub (Doctrine)
Conduct Joint Inteligence Operations	TA 2, TA2.4	Share Intelligence	OP 2	Conduct Joint Intelligence Operations		
Coordinate Air Tasking Order	TA3.3.1	Coordinate Air Tasking Order				
Conduct Precision Engagement Counter-Countermeasure Operations	TA3.5	Conduct Precision Engagement Counter-Countermeasure Operations	OP3.4	Conduct Precision Engagement Counter-Countermeasure Operations		
Conduct Detainee Operations	TA3.6	Conduct Detainee Operations				
Antiterrorism					JP 3-07.2	Antiterrorism
Peace Operations			OP3.3	Conduct Peace Operations in the JOA	JP 3-07.3	Peace Operations
Foreign Humanitarian Assistance					JP 3-07.6	Joint TTPs for Foreign Humanitarian Assistance
Conduct Joint Logistics Over-the-Shore Operations	TA4.4	Conduct Joint Logistics Over-the-Shore Operations				
Foreign Internal Defense			OP4.7.7	Conduct Foreign Internal Defense	JP 3-07.1	Joint TTPs for Foreign Internal Defense
Employ Tactical Information Operations	TA5.6	Employ Tactical Information Operations				
Conduct Civil Administration	TA5.7	Conduct Civil Administration				
Conduct Official Ceremonial, Musical, Public, and Special Events	TA5.8	Conduct Official Ceremonial, Musical, Public, and Special Events				
Chemical, Biological, Radiological, or Nuclear	TA-7.1	Conduct Mission Operations in a CBRNE Environment	OP7.4	Conduct CWMD/CBRN Interdiction Operations in JOA	JP 3-41	CBRNE Consequence Management
CID	TA6.5	Provide for Combat Identification			JP 3-52	Joint Doctrine for Airspace Control in the Combat Zone

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Joint Mission Thread Descriptions

Operational Context: Excerpts from Universal Joint Task List

Examples:

(U) TA 3.2.2 Conduct Close Air Support

Task Description: To provide support for amphibious and/or land operations by air assets through attacking hostile targets in close proximity to friendly forces. (JP 3-0, JP 3-09, JP 3-09.3)

(U) TA 3.2.1.1 Engage Time Sensitive Targets

Task Description: To engage in battle tracking by detecting and identifying sensor elements, mission approval from command nodes, availability of attack assets at the right time and place with appropriate munitions, transfer of target from tracking element to attack asset, attack, and battle damage assessment. (JP 2-01.1, JP 3-09, JP 3-60)

(U) TA 1.2.4 Conduct Counterdrug Operations

Task Description: Counterdrug operations are those active measures taken to support federal, state, and local LESs in their effort to detect, monitor, and disrupt the production, transportation, and distribution of illegal drugs into the United States. DOD land, sea and air forces can be effectively employed to conduct detection and follow-on monitoring of illicit drug cargoes, source areas and associated personnel until a law enforcement agency (LEA) can effect interdiction. This task may include host nation (HN) support, command, control, communications, computers, and intelligence (C4I), land, air and maritime intelligence and reconnaissance and interoperability links with LEAs at international, federal, state and local levels. (JP 3-07, JP 3-07.4)

Joint Mission Thread Required Documents & Data

1. All/Operational Views (As-Is):
   - AV-1, Overview and Summary Information
   - OV-1, High Level Operational Concept Graphic
   - OV-2, Operational Resource Flow Description
   - OV-3, Operational Resource Flow Matrix
   - OV-5a, Operational Activity Decomposition Tree
   - OV-5b, Operational Activity Model
   - OV-6c, Event-Trace Description
2. System Views (As-Is):
   - SV-1, System Interface Context Description
   - SV-4, Systems Functionality Description
   - SV-5b, Operational Activity to Systems Traceability Matrix
   - SV-6, Systems Resource Flow Matrix
   - SV-10c, System Event-Trace Description
3. Process Model (Executable Architecture)
4. Other Documents
   - Authoritative Sources: Joint/multi-Service doctrine, TTPs, CONOPs
   - SoS CCIs, System of System Critical Capability Issues
   - As Available: Lessons Learned, GDF, studies, WG

A well-defined Executable Architecture facilitates building these products

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Next Steps: Staff, Validate & Prioritize

- ✓ **Staff:**
  - J8 Internal (Front Office & Div Chiefs) – 21 Jul
  - JFCOM CoS Tasker – 29 July
  - Joint Mission Thread Architecture & Testing Working Group (JMTAT WG) – 24 July
  - Joint Architecture Integration Working Group (JAIWG) – 30 July
  - JSAP 136 – Aug Review & Recommendations
  - JMT List will be included in Joint C2 Network Test & Partnership JROC package – Aug 09
- ✓ **Validate:**
  - C2 Optimization value of threads selected/which threads impact more C2 JCAs/UJTs/Service Tasks/Systems
  - Comparative Analysis with JMTAT WG Data Call
  - Adjudication of JSAP comments/inputs
  - Value of the thread to mission outcome
- ✓ **Prioritize:**
  - JROC will finalize priorities

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BACK-UPs

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JMT Relationship to Testing
(CJCSI 6212.01E)

- Testing using established Joint Mission Threads will verify the operational effectiveness of the information exchanges of the system under test with all its enabling systems.
- Interoperability evaluation must assess the exchange and use of information to include established joint mission threads ***where these have been defined*** and included in J-6 I&S certified documents.

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JMT Relationship to Architectures

(CJCSI 6212.01E) – 1 of 2

- The joint critical mission threads for the system will be documented in OV-6Cs and should be identified as threshold or objective.
- The associated joint critical operational activities required to perform these joint critical mission threads are documented in text with the OV-5.
- The joint critical operational activities are traced through the DOD Information Enterprise Architecture and solution architectures from OV-6Cs to OV-5, OV-3, TV-1, SV-5, SV-4, and SV-6.

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JMT Relationship to Architectures

(CJCSI 6212.01E) – 2 of 2

- The information and data exchanges and mission critical performance attributes are identified and documented in the OV-3 and SV-6, including those derived from established joint critical mission threads

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A Joint Approach to Developing Reusable JMT Information

- Capability Mapping Baseline – Framework of mapped authoritative sources
- UJTL information from the Joint Doctrine, Education and Training Electronic Information System (JDEIS) Web Portal:

  https://jdeis.js.mil/jdeis
- UJT Operational Templates:

https://jdeis.js.mil/jdeis/ujtl_demo/ujtl_operations.jsp

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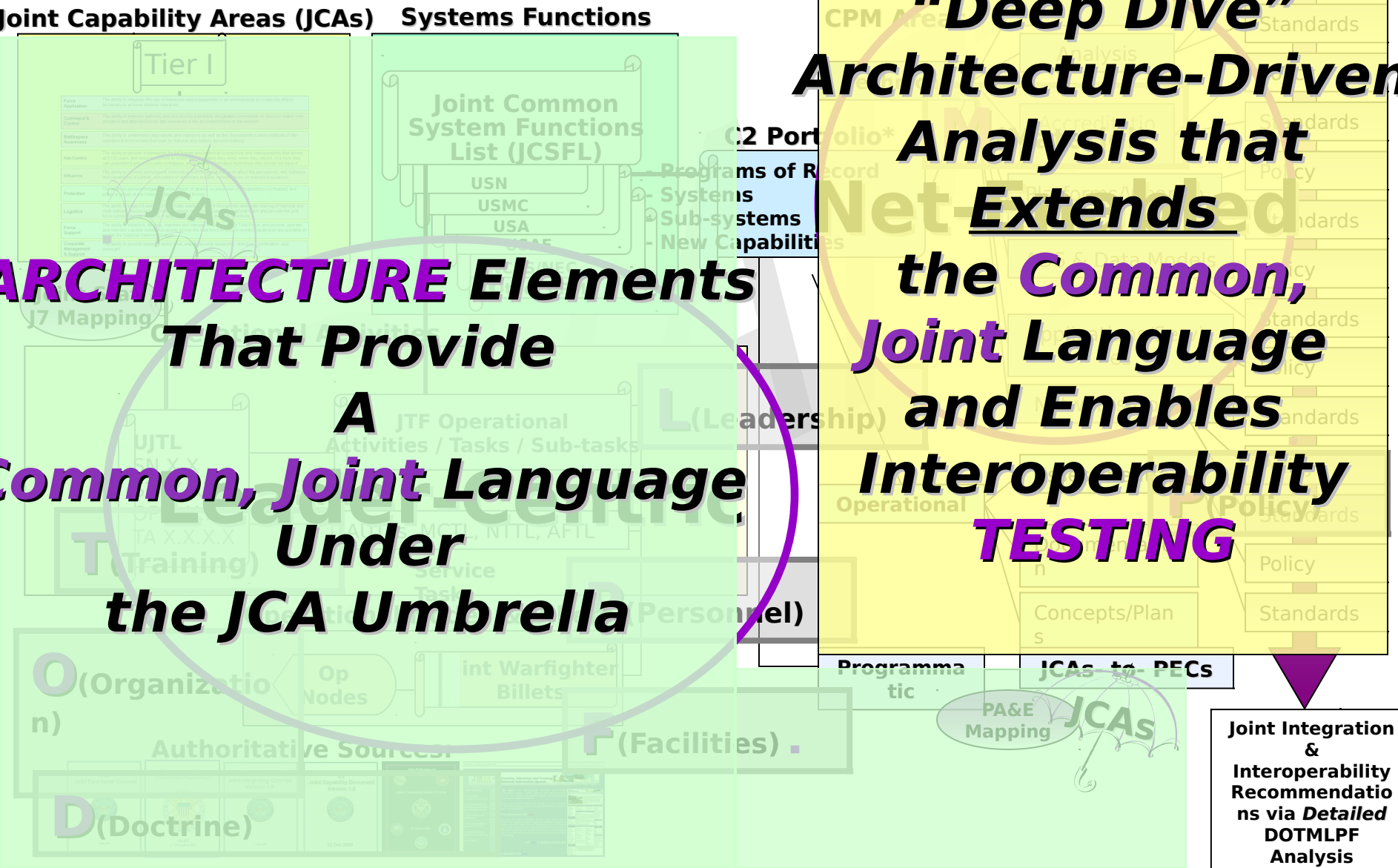
Capability Mapping Baseline

"Periodic Table" for Operational DOTMLPF Analysis



ARCHITECTURE Elements That Provide A Common, Joint Language Under the JCA Umbrella

"Deep Dive" Architecture-Driven Analysis that Extends the Common, Joint Language and Enables Interoperability TESTING

Joint Integration & Interoperability Recommendations via *Detailed* DOTMLPF Analysis

Joint Mission Threads

"Pulled" Through Capability Mapping Elements and Reused

Joint Capability Areas (JCAs)

Tier I

JCAs

Joint Staff J7 Mapping

Systems Functions

Joint Common System Functions List (JCSFL)

USN

USMC

USA

USAF

NCES/NECC

Other CE

Operational Activities

Operational (Leader-Centric) UJTs

Net-Enabled UJTs

AUTLs, MCTL, NTTL, AFTL

Service Tasks

Nodes & Billets

Op Nodes

Joint Warfighter Billets

Authoritative Sources:

C2 Portfolio

Standards

JCAs to PECs

PA&E Mapping

JCAs

Joint Integration & Interoperability Recommendations via *Detailed* DOTMLPF Analysis

Mission Thread #2

Mission Thread #1

JMT Repository For Reuse

Mission Thread #1

Mission Thread #2

Mission Thread # 3

Mission Thread # 4

Etc.…

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Select an Operation:

Air Assault Search

- Air Assault
- Airborne
- Amphibious
- AntisubmarineWarfare
- Antiterrorism
- Area Defense
- Arms Control
- Attack
- Barrier Operations
- Blockade
- Campaign Planning

Mission Areas (1 of 6)

Microsoft Office Outlook

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Select an Operation:

Campaign Planning Search

- Campaign Planning
- Civil Disturbance
- Civil Support
- Combat Search and Rescue
- Command and Control Warfare
- Counterdrug
- Counterproliferation
- Counterterrorism
- Defensive Counter-Air
- Delay
- Deployment

Mission Areas (2 of 6)

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Select an Operation:

Deployment Search

- Deployment
- Destroy Enemy Bases
- Destroy Enemy Naval Forces
- Domestic Consequence Management
- Environmental Assistance
- Exploitation
- Foreign Consequence Management
- Foreign Internal Defense
- Humanitarian Assistance
- Information Warfare
- Joint Interdiction

Mission Areas (3 of 6)

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Select an Operation:

Joint Interdiction Search

- Joint Interdiction
- JTF Planning
- Land Defense
- Maritime Interception
- Mobile
- Mobilization
- Movement to Contact
- Nation Assistance
- Noncombatant Evacuation
- Nuclear
- Offensive Counterair

Mission Areas (4 of 6)

Internet

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Select an Operation:

Peace Enforcement Search

- Peace Enforcement
- Peacekeeping
- Peacemaking
- Pursuit
- Rear Area Security
- Reception, Staging, Onward Movement and Integration
- Reconnaissance, Surveillance and Target Acquisition
- Retirement
- Search and Rescue
- Seize Advanced Bases
- Show of Force

Mission Areas (5 of 6)

Internet

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Select an Operation:

Space Search

- Search and Rescue
- Seize Advanced Bases
- Show of Force
- Space
- Strategic Attack
- Support Counterinsurgencies
- Support Insurgencies
- Suppression of Enemy Air Defenses
- Theater Missile Defense
- Theater Nuclear
- Withdrawal

Mission Areas (6 of 6)

TOTAL OF 60

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Select an Operation:

Command and Control Warfare Search

- Civil Disturbance
- Civil Support
- Combat Search and Rescue
- Command and Control Warfare
- Counterdrug
- Counterproliferation
- Counterterrorism
- Defensive Counter-Air
- Delay
- Deployment
- Destroy Enemy Bases

C2 Warfare Mission Area Selected

Internet

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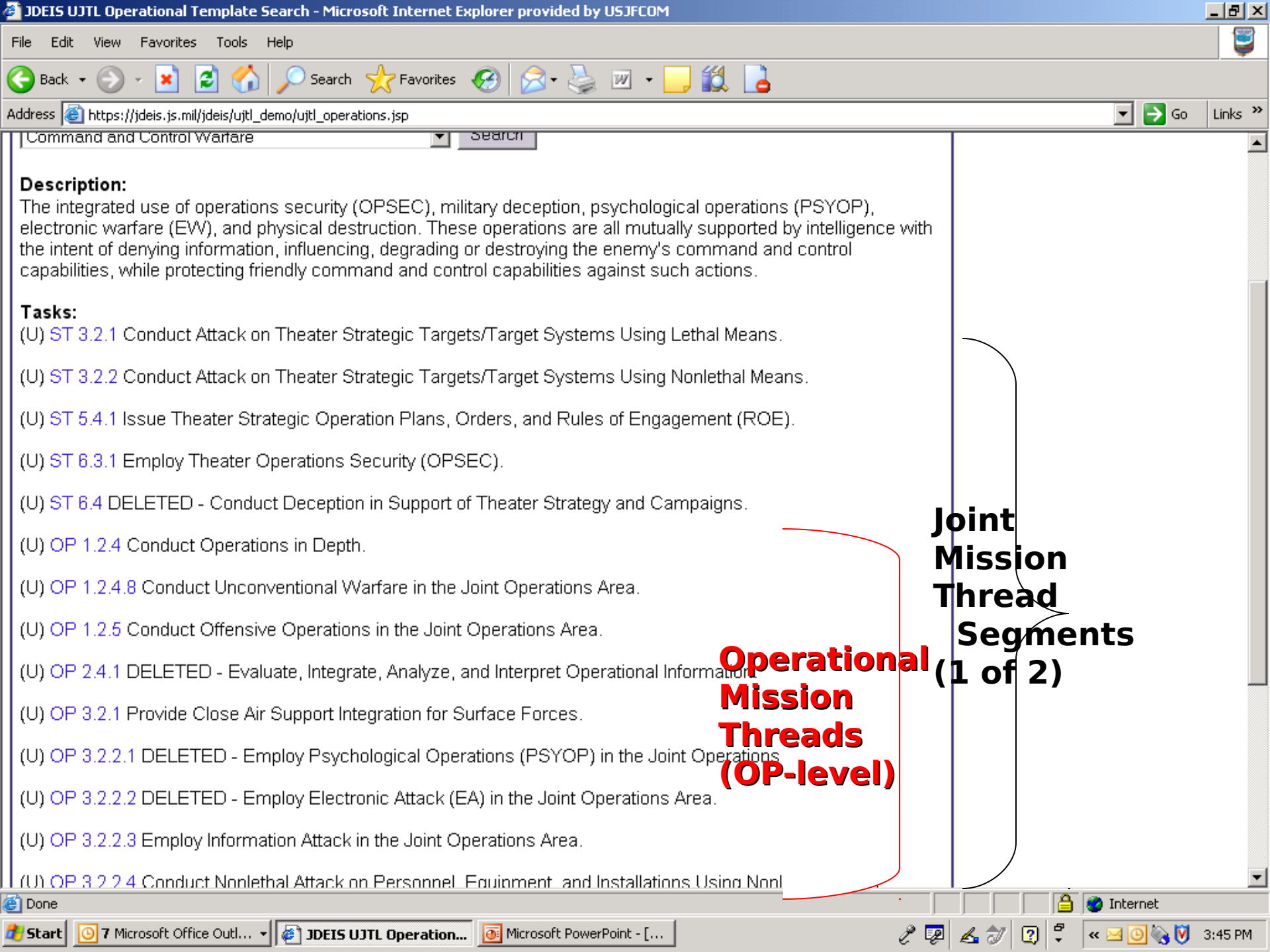
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Command and Control Warfare
Search
Description:
The integrated use of operations security (OPSEC), military deception, psychological operations (PSYOP), electronic warfare (EW), and physical destruction. These operations are all mutually supported by intelligence with the intent of denying information, influencing, degrading or destroying the enemy's command and control capabilities, while protecting friendly command and control capabilities against such actions.
Tasks:
(U) ST 3.2.1 Conduct Attack on Theater Strategic Targets/Target Systems Using Lethal Means.
(U) ST 3.2.2 Conduct Attack on Theater Strategic Targets/Target Systems Using Nonlethal Means.
(U) ST 5.4.1 Issue Theater Strategic Operation Plans, Orders, and Rules of Engagement (ROE).
(U) ST 6.3.1 Employ Theater Operations Security (OPSEC).
(U) ST 6.4 DELETED - Conduct Deception in Support of Theater Strategy and Campaigns.
(U) OP 1.2.4 Conduct Operations in Depth.
(U) OP 1.2.4.8 Conduct Unconventional Warfare in the Joint Operations Area.
(U) OP 1.2.5 Conduct Offensive Operations in the Joint Operations Area.
(U) OP 2.4.1 DELETED - Evaluate, Integrate, Analyze, and Interpret Operational Information
(U) OP 3.2.1 Provide Close Air Support Integration for Surface Forces.
(U) OP 3.2.2.1 DELETED - Employ Psychological Operations (PSYOP) in the Joint Operations
(U) OP 3.2.2.2 DELETED - Employ Electronic Attack (EA) in the Joint Operations Area.
(U) OP 3.2.2.3 Employ Information Attack in the Joint Operations Area.
(U) OP 3.2.2.4 Conduct Nonlethal Attack on Personnel, Equipment, and Installations Using Nonl
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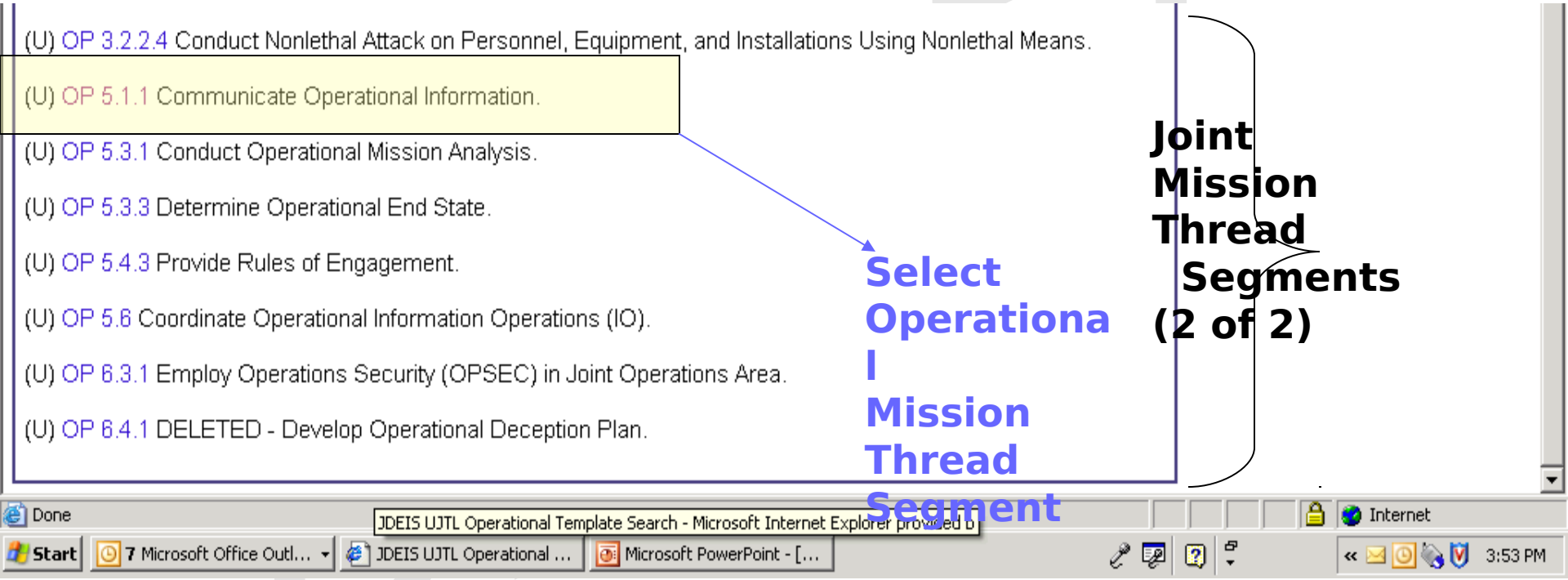
Operational Mission Threads (OP-level)
Joint Mission Thread Segments (1 of 2)


(U) OP 3.2.2.4 Conduct Nonlethal Attack on Personnel, Equipment, and Installations Using Nonlethal Means.
(U) OP 5.1.1 Communicate Operational Information.
(U) OP 5.3.1 Conduct Operational Mission Analysis.
(U) OP 5.3.3 Determine Operational End State.
(U) OP 5.4.3 Provide Rules of Engagement.
(U) OP 5.6 Coordinate Operational Information Operations (IO).
(U) OP 6.3.1 Employ Operations Security (OPSEC) in Joint Operations Area.
(U) OP 6.4.1 DELETED - Develop Operational Deception Plan.
Select Operational Mission Thread Segment
Joint Mission Thread Segments (2 of 2)
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(U) OP 5.1.1 Communicate Operational Information

Task Description: To send and receive operationally significant data from one echelon of command to another by any means. (CJCSM 3500.05, JP 0-2, JP 3-30, JP 5-00.2, JP 6-0)

Measures

Additional Task Detail

View Joint Conditions

Doctrine References:

Pub: JP 1 - Doctrine For The Armed Forces Of The United States (May 14 20
Chapter: IV - Doctrine For Joint Command And Control
Paragraph: 16 - Command And Control Support

Pub: JP 3-30 - Command And Control For Joint Air Operations (05 Jun 2003)
Chapter: III - Planning For Joint Air Operations
Paragraph: 9 - Command, Control, Communications, Computers, Intelligence Surveillance, And Reconnaissance Considerations

Pub: JP 3-33 - Joint Task Force Headquarters (Feb 16 2007)
Chapter: X - Joint Task Force Communications System Support

Further Levels of Decomposition ... .

- **Joint Mission Thread (JMT) Mission Analysis**
- **JMT Development including process model activities**
- **JMT Architecture Elements**

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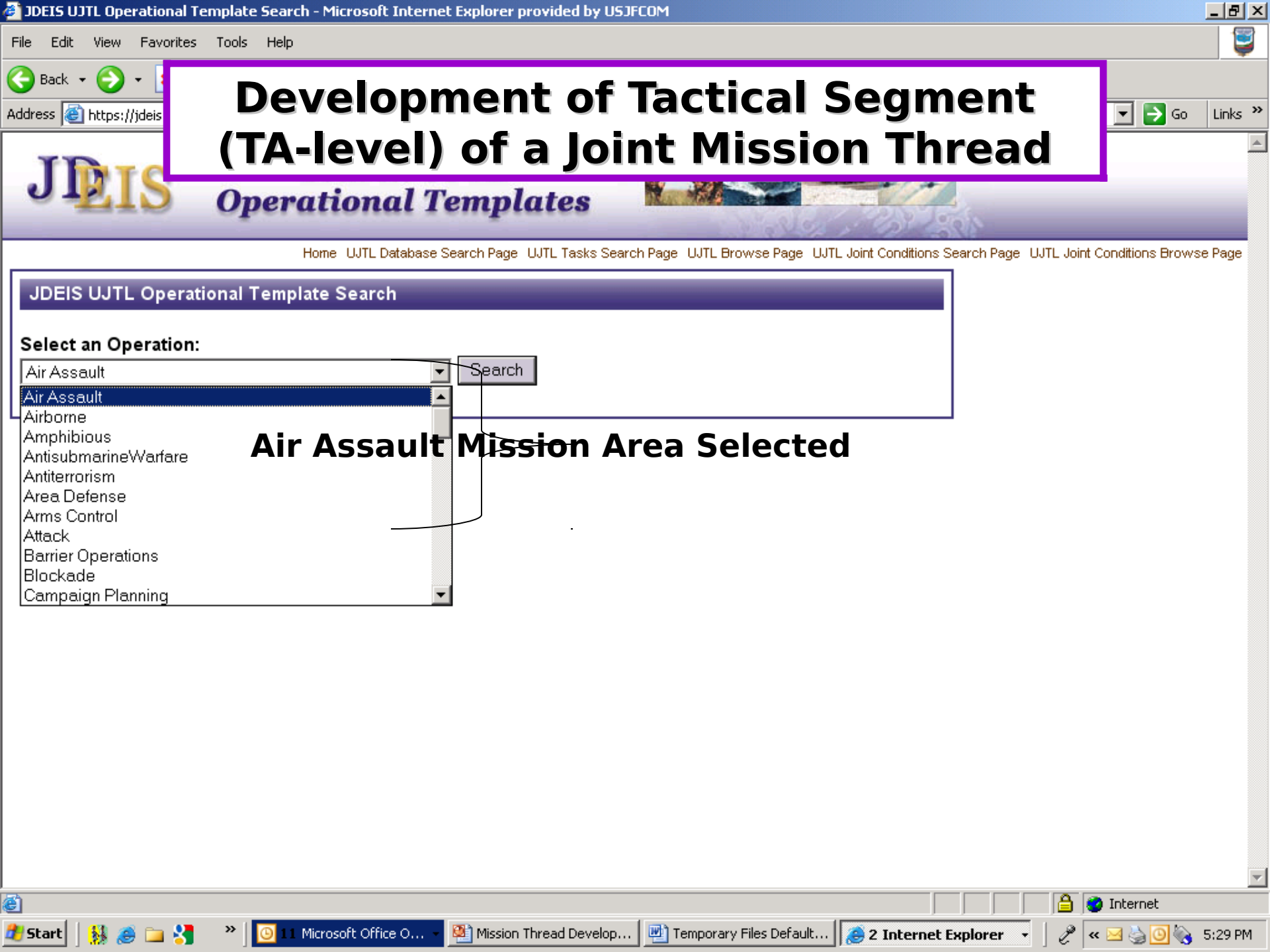
Development of Tactical Segment (TA-level) of a Joint Mission Thread



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Description:
A forcible entry operation conducted by the U S Army's air assault units to seize a lodgment (normally an airfield) and defend it while the joint force commander executes a rapid build-up of combat power.

Tasks:
(U) ST 1.3.3 Synchronize Forcible Entry in Theater.

(U) ST 1.3.4 Integrate Direct Action in Theater.

(U) ST 5.4.2 Synchronize Joint Operations and Subordinate Campaign Plans.

(U) ST 6.2.1 Coordinate the Preparation of Strategically Significant Defenses.

(U) ST 7.1.3 Tailor Joint Forces for Deployment.

(U) OP 1.2.4.3 Conduct Forcible Entry: Airborne, Amphibious, and Air Assault.

(U) OP 1.2.4.4 Reinforce and Expand Lodgment.

(U) OP 1.2.5 Conduct Offensive Operations in the Joint Operations Area.

(U) OP 1.2.6 Conduct Defensive Operations in the Joint Operations Area.

(U) OP 1.3.1 Overcome Operationally Significant Barriers, Obstacles, and Mines.

(U) OP 1.5.1 Control of Operationally Significant Land Area in the Joint Operations Area.

(U) OP 2.4.1 DELETED - Evaluate, Integrate, Analyze, and Interpret Operational Information.

(U) OP 3.1.7 Employ Fire Support Coordination Measures.

(U) OP 3.2.7 Synchronize Operational Firepower.

(U) OP 5.3.1 Conduct Operational Mission Analysis.

(U) OP 5.3.3 Determine Operational End State.

Select Operational Mission Thread Segment OP 3.2.7

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(U) OP 3.2.7 Synchronize Operational Firepower

Task Description: To synchronize, and integrate as necessary, operational attacks on single or multiple operational targets at the decisive time and place. This integration includes lethal and/or nonlethal means and minimizing their effect on friendly forces, neutrals, and noncombatants. (CJCSM 3500.05, JP 3-0, JP 3-09)

Measures

Additional Task Detail

View Joint Conditions

Doctrine References:

Pub: JP 3-0 - Joint Operations (Feb 13 2008)
Chapter: III - Joint Functions
Paragraph: 4 - Fires

Pub: JP 3-09 - Joint Fire Support (Nov 13 2006)
Chapter: I - Joint Fire Support Overview
Paragraph: 4 - Synchronization Of Maneuver And Fires

Pub: JP 3-09 - Joint Fire Support (Nov 13 2006)
Chapter: III - Joint Fire Support Planning And Execution
Paragraph: 6 - Joint Fire Support And Force Capabilities

Pub: JP 3-09 - Joint Fire Support (Nov 13 2006)
Chapter: III - Joint Fire Support Planning And Execution
Paragraph: 5 - Joint Fire Support Coordination

Related Key Doctrine Elements (KDE)

Select Additional Task Detail for OP 3.2.7

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OP 3.2.7 Synchronize Operational Firepower

Description

To synchronize, and integrate as necessary, operational attacks on single or multiple operational targets at the decisive time and place. This integration includes lethal and/or nonlethal means and minimizing their effect on friendly forces, neutrals, and noncombata

Note/Background

Firepower is synchronized through fire support coordi and concept of operations. Firepower must be p development of the scheme of maneuver. Further, fire operations (e.g. intelligence and special operations) resources, achieve synergy, and avoid fratricide.

Measures

M1	Hours	To reattack operational target.
M2	Percent	Of assets used for short notice retarge
M3	Percent	Of attacks deconflicted with friendly fo
M4	Percent	Of attacks on enemy targets achieve d
M5	Percent	Of attacks on HPTs lack integration of
M6	Percent	Of destroyed HPTs subsequently enga
M7	Percent	Of friendly casualties by fratricide.
M8	Percent	Of HPTs attacked by joint force as imm
M9	Percent	Of operational targets attacked by leth
M10	Percent	Of SOF missions executed with appro
M11	Percent	Of strategic national missions require t
M12	Percent	Satisfaction of theater/JOA support for

Critical Elements

E1 Intelligence

T1 Develop accurate and timely intelligence operational, and tactical levels in the ar communication, capabilities and estima

T2 Ensure that the commander's priority in are fully integrated into the intelligence

T3 Provide intelligence support to develop

T4 Use an intelligence, surveillance, and reconnaissance (ISR) system to ensure an integrated intelligence preparation of the operational environment (IPOE) and a complete targeting effort

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- Measures
- Critical Elements
- Supporting Joint Tasks
- Supporting SVC Tasks
- Supporting Joint & Svc Doctrine
- Task Conditions

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	Commander's Estimate
ST 5.4.2	Synchronize Joint Operations and Subordinate Campaign Plans
OP 1.1	Conduct Operational Movement
OP 2	Provide Operational Intelligence, Surveillance, and
OP 3	Employ Operational Firepower
OP 3.1	Conduct Joint Force Targeting
OP 3.1.2	Apportion Joint/Multinational Operational Firepower Resources
OP 3.1.3	Develop Operational Targets
OP 3.1.7	Employ Fire Support Coordination Measures
OP 3.2.2	Conduct Attack on Operational Targets using Nonlethal Means
OP 3.2.2.4	Conduct Nonlethal Attack on Personnel, Equipment, and Installations using Nonlethal Means
OP 3.2.6	Provide Firepower in Support of Operational Maneuver
OP 3.2.7	Synchronize Operational Firepower
OP 5	Provide Operational Command and Control (C2)
OP 5.1.1	Communicate Operational Information
OP 5.1.11	Provide Positive Identification of Friendly Forces within the Joint Operations Area
OP 5.4.4	Synchronize and Integrate Operations
TA 1	Deploy/Conduct Maneuver
TA 1.2.2	Conduct Airborne Operations
TA 1.6	Operate from Afloat Forward Staging Base (AFSB)
TA 2	Share Intelligence
TA 3	Employ Firepower
TA 3.2.1	Conduct Joint Fires
TA 3.2.2	Conduct Close Air Support
TA 3.2.4	Conduct Joint Suppression of Enemy Air Defenses (JSEAD)
TA 3.2.6	Conduct Attacks Using Nonlethal Means
TA 3.3	Coordinate Battlespace Maneuver and Integrate with Firepower
TA 5	Exercise Command and Control
TA 6.5	Provide for Combat Identification

Select Tactical Task TA 3.2.2 for Tactical Joint Mission Thread Segment

Supporting Service Tasks

Army

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TA 3.2.2 Conduct Close Air Support

Description

To provide support for amphibious and/or land operation
targets in close proximity to friendly forces.

Note/Background

Although close-air support (CAS) is conducted at the ta
level through the air apportionment and allocation proc
accomplish military objectives assigned to tactical uni
focuses on the ordered arrangement and maneuver of c
and to the enemy in order to achieve combat objectives.

Measures

M1	Minutes	Preplanned CAS missions execute wea minutes of ATO-tasked time-on-target (
M2	Minutes	Airborne Alert or preplanned on-call CA within ___ minutes of ATO-tasked time-

Critical Elements

E1 **Operational Planning/Information**

T1 Implement the airspace control plan.

T2 Ensure airspace control order (ACO) pro
joint close air support (JCAS) operations

T3 Ensure special operations command and control element (SOCCE) or the special operations liaison element (SOLE), coordinate with joint operations center (JOC) and/or
joint air operations center (JAOC) for CAS.

T4 Ensure the SOCCE and/or SOLE deconflict and recommend courses of action to

Additional Detail of TA 3.2.2 Provides Word .doc w/:

- Measures
- Critical Elements
- Supporting Joint Tasks
- Supporting SVC Tasks
- Supporting Joint & Svc Doctrine
- Task Conditions

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OP 6.2.9 Coordinate Personnel Recovery

Description

Establish personnel recovery (PR) coordination node[s] [staffs], forces and potential isolated personnel to accomplish t[he] [sup]port, recover, and reintegrate.

OP 6.2.9 is listed under the Search & Recovery Operational Template (Mission Area)

Note/Background

Task includes establishing a theater joint search and re[scue] [to] assist the joint force commander (JFC) in executing joint PR operations. Component commanders should establish a rescue coordination center (RCC) or functional equivalent to coordinate all component PR activities. This includes establishment of an unconventional assisted recovery coordination center (UARCC) to assist the JFC in nonconventional assisted recovery (NAR). Includes setting PR standards in theater entry requirements. Personnel recovery (PR) involves all tasks to report, locate, support, recover, and reintegrate personnel who have been isolated across the range of military operations. Joint force components are responsible for conducting PR for assigned and attached forces and supporting other component's PR operations, as directed by the joint force commander (JFC). Joint doctrine specifies that joint force components, at the direction of the JFC, will provide specific PR capabilities to support joint PR events within their capabilities and consistent within the priorities and requirements of other assigned tasks. At the operational level, PR includes: establishing theater entrance requirements for PR capabilities; planning on a routine basis in conjunction with operation plans and operation orders; establishing and exercising a joint personnel recovery center; establishing and exercising component personnel recovery coordination cells; establishing and exercising an unconventional assisted recovery coordination cell; and reintegrating recovered isolated personnel. Task includes establishing a theater joint search and rescue center (JSRC) to plan, coordinate, and assist the JFC in executing joint PR operations. Component commanders should establish a personnel recovery coordination cell (PRCC) or functional equivalent to coordinate all component PR activities. This includes establishment of an unconventional assisted recovery coordination center (UARCC) to assist the JFC in nonconventional assisted recovery (NAR). Includes setting PR standards in theater entry requirements.

Measures

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TA 6.2 Execute Personnel Recovery Operations

Description

Accomplish the personnel recovery execution t
reintegrate) to recover US military, Department of
other designated personnel using unassisted, op
nonmilitary organizations capabilities.

TA 6.2 is listed under OP 6.2.9 as a Tactical Segment of a Joint Mission Thread

Note/Background

The accomplishment of the five personnel recovery
recover, and reintegrate) may employ methods across the range of military operations, from search and rescue in permissive environments to a PR task force or nonconventional assisted recovery. Joint force components must be prepared to conduct PR task force operations when directed by the joint force commander (JFC). Joint doctrine specifies that joint force components, at the direction of the JFC, will provide specific PR capabilities to support joint PR events within their capabilities, and consistent with the priorities and requirements of other assigned tasks.

Measures

M1	Percent	Of isolated personnel able to report their situation/location.
M2	Minutes	To notify higher echelon and parallel commands following initial report of an isolating incident.
M3	Yes/No	Able to locate isolated personnel within appropriate amount of time.
M4	Yes/No	Personnel Recovery mission procedures include analyzing and corroborating location information before passing with source and time stamp to other PR coordination nodes and forces.
M5	Percent	Of personnel who have received SERE training commensurate with their risk of isolation and exploitation.
M6	Yes/No	Processes and products are developed and prepared, and forces are capable to accomplish the support task to facilitate the isolated personnel's ability to survive, evade, resist and escape.

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